

ChemPor-2023 Oral Presentations: Program code, presenting author and title.

Code	Presenting Author	Title
O BS-01	Nídia Caetano	Biochar and bio-oil from spent coffee grounds valorization
O BS-02	Soraya Rodriguez-Rojo	Understanding the behavior of chitin in subcritical and supercritical water in a continuous reaction system
O BS-03	Gabriel Costa	Method for the Sustainability analysis of extraction processes: obtaining high value products from soybean oil deodorization distillate (SODD)
O BS-04	José Coelho	Applying two steps of DOE to microwave extraction from spent coffee
O BS-05	Margarida M. Antunes	Multifunctional nanohybrids, zeotypes and modified macro and mesoporous silicas for the upgrading of the renewable platform chemical levulinic acid
O BS-06	Raul Robles-Iglesias	Efficient conversion of syngas to lipids through a two-stage bioconversion process
O BS-07	Carina Costa	From sulphite liquor production to valorization: challenges in vanillin crystallization
O BS-08	Katarzyna Morawa Eblagon	Towards sustainable valorization of industrial waste - catalysts derived from sugar cane molasses for upgrading glycerol to fuel additives
O BS-09	Maurício Masaru de Souza Ribeiro	Microwave extraction of proteins from <i>Litopenaeus vannamei</i> molt shell using only water as a solvent
O BS-10	Andreia F. Peixoto	Shrimp shells waste biorefinery: From the extraction to the production of designed biochar catalysts, biofuels, bioproducts and energy conversion
O BS-11	Rui M. Filipe	Modelling and optimisation of supercritical CO ₂ extraction of fatty acids from rice bran
O BS-12	Thercia R. Balbino	Valorization of grain and cereal processing by-products as yeast substrates for carotenoids production
O BT-01	Isabel M. Martins	Biovalorization of agricultural by-products obtained through green extraction methodology
O BT-02	Stephany Cunha de Rezende	Development of K-carrageenan polymeric films incorporated with curcumin solid dispersion particles as a model packaging material for olive oil preservation
O BT-03	Isabella W. Cordova	Extraction of phenolic compounds from <i>Juglans regia L.</i> leaves using aqueous solutions of eutectic solvents
O BT-04	Cristina Quintelas	EPS and aggregates changes on activated sludge under atrazine exposure
O BT-05	Bernardo L. Tavares	Development of an enzymatic biosensor based on boron-doped diamond surface
O BT-06	Ana F. Pereira	Enhanced extraction of RNA from recombinant lysates afforded by the use of biocompatible ionic liquids
O BT-07	Fernando Gomes Martins	Analysis and calculation of biofilm structural properties using 3D OCT images in BISCAP
O BT-08	Silvia Escudero-Curiel	Valorization of agro-industrial wastes by hydrothermal carbonization: synthesis, nitrogen functionalization, and evaluation as carbocatalysts in water treatment
O BT-09	Flávia F. Magalhães	Development of an integrated process for the production and purification of laccase
O BT-10	Filipa Castro	Investigation of insulin nucleation kinetics under oscillatory flow mixing
O BT-11	Sara M. Ferreira	Valorization of agro-industrial by-products: the chemistry behind the biological properties of phenolic extracts and their potential for value-added products
O BT-12	Rodney Helder Miotti Jr.	MLM-type structured lipids: synthesis and cytotoxic evaluate with murine fibroblast and human cervical adenocarcinoma cell lines
O BT-13	Daniela P. Mesquita	Assessing the influence of long-chain fatty acids on aerobic granular sludge stability in a sequencing batch reactor
O BT-14	Ana Cordeiro	Olive oil by-products as potential alternative substrates for xylooligosaccharides production
O BT-15	Bruna Dias	Microbial lipids production by <i>Yarrowia lipolytica</i> W29 from eucalyptus bark hydrolysate
O BT-16	Sílvia M. Miranda	Batch cultures of <i>Y. lipolytica</i> CBS 2075 on hydrocarbons medium under different conditions of oxygenation
O EE-01	Rui Ribeiro	Activated carbon 3D structures for carbon dioxide capture
O EE-02	Marta Pereira	Hermetic encapsulation for long-lifetime printable perovskite solar cells and mini-modules
O EE-03	Emanuel F.S.Sampaio	Degradation of volatile organic compounds from gaseous streams by Fenton's oxidation over N-doped carbon-based materials
O EE-04	Marcelino Gimenes	Biochemical methane potential and biodegradability of brewery spent grain in different inoculum to substrate ratios
O EE-05	Joana Principe	Comparison of energy consumption and carbon footprint of perovskite solar cells with different architectures
O EE-06	Jeffrey Capitão	Overcoming the upscaling challenges of Dye-sensitized solar cells with fluorine-doped tin oxide current collectors
O EE-07	Rui S. Ribeiro	Highly stable noble metal-free bifunctional carbon black electrocatalysts for oxygen reduction and evolution reactions
O EE-08	Jorge Martins	Low temperature hermetic encapsulation for long-term stable dye-sensitized solar cells
O EE-09	Eliana Loureiro	A novel approach for lead mitigation in perovskite solar cells glass encapsulated by laser sealing
O EE-10	Adriano Santos Silva	Magnetic properties of carbon nanotubes synthesized by chemical vapor deposition using polyolefins as carbon source
O EE-11	Sara Caruncho-Pérez	When electroanalysis meets engineering: Validation of a methodology for the detection and monitoring of drugs' removal from water
O EE-12	Ana Rita Querido	Stable and Selective Cu-based catalysts supported on CNT-ZnO Catalysts for the Reverse Water-Gas Shift Reaction
O EE-13	Jose L. Diaz de Tuesta	Exhaustive characterization of petroleum sludges from different units of treatment and strategies for their valorization
O EE-14	Tiago Ferreira	Analysis and levels of volatile methylsiloxanes in microplastics and sand from Azores beaches

O EE-15	Ana Sofia Alves	Treatment of a toluene-containing gas stream by application of an activated persulfate-based Advanced Oxidation Process
O EE-16	Diego Huber-Benito	Conversion of sewage sludge into catalyst for cytostatic removal
O EE-17	Pedro Teixeira Pacheco	Numerical modelling and experimental measurement of wear in a cyclone separator
O EE-18	Ana Amorim	Biomass-based adsorbents for carbon capture
O EE-19	Vanessa Jorge Pereira	Treatment of wastewater effluents using nanofiltration and low pressure UV treatment to produce high quality water that can be reused for irrigation for food production
O EE-20	Andrés Sánchez-Yepes	Efficient Adsorption and Regeneration of activated carbon Using in the Treatment Highly Chlorinated Organic Emulsion using the Fenton Reaction.
O EE-21	Daniel Terrón	Synthesis of bimetallic ZnFe-MOF catalyst for the removal of emerging pollutants in wastewater by using radical-based treatment

O IA-01	Domingos Barbosa	Green solvents for enhanced selective extraction of 1,3-Butadiene: A comparative study
O IA-02	Inês D. Borges	Phosphorus recovery using calcined Layered Double Hydroxides from aqueous matrices
O IA-03	Tiago Miguel Gamito Taborda	Static optimization and dynamic modelling of microalgae production in photobioreactors
O IA-04	Roberto Magalhães	Multi-class classification of melamine content in industrial formaldehyde-based resins using NIR spectroscopy and machine learning
O IA-05	Jorge Santos	Impact of visible light on natural textile dyes obtained from Yerba mate (ILEX PARAGUARIENSIS).
O IA-06	Rodrigo Paredes	Decentralized Process Monitoring: Unlocking causal insights for enhanced fault detection and diagnosis
O IA-07	Eugeniu Stretet	Multimodal data fusion in the Chemical Processing Industry: a new methodology and case studies
O IA-08	Amna Ali Al-Farsi	Modulating effect of choline based ionic liquids on micellization behavior of ionic surfactants in aqueous medium

O IM-01	Maria João Regufe	Water capture from air: development of inks for 3D-printing using MOFs
O IM-02	Ismael Marcet	Modification of dextran with octenyl succinate. Evaluation of emulsifying and foaming properties
O IM-03	Amor Bzainia	Facile process for the purification of (E)-resveratrol from grape stems using tailor-made sorbents
O IM-04	Andreia Ribeiro	Vitamin E-loaded hydroxyapatite Pickering emulsions as new product design for fortified food applications
O IM-05	Cláudia F. Almeida	Recovery of chitin and chitosan from Agaricus bisporus mushrooms: optimisation of the extraction process and effect of different mushroom samples
O IM-06	Giovana Colucci	Colloidal lignin particles as innovative oil-in-water Pickering stabilizers
O IM-07	Luís Alves	Rheology of suspensions of charged cellulose nanofibrils
O IM-08	Caroline Araujo	Synthesis of nano-biocomposite hydrogel with graphene oxide for the separation of hemoprotein myoglobin: adsorption equilibrium and kinetics
O IM-09	Miguel Casquilho	Superabsorbent polymers: their uses and properties, and computation of their characteristic parameters
O IM-10	Catarina P. Gomes	Hybrid adsorbents endowed with stereospecificity towards flavonoids present in olive oil and winemaking residues
O IM-11	Ana I. Furtado	Green affinity-driven biopurification materials: Supercritical CO2 technology versus Mechanochemistry
O IM-12	Aida María Díez Sarabia	Agroindustry residues as powerful materials for environmental remediation and energy generation
O IM-13	Teresa Esteves	Material development contribution to improve biorefinery sustainability
O IM-14	Gabriela Caetano	Dyes removal using poly(ionic liquid)s

O MS-01	Paulo Mota	Comparison of continuous chromatography for downstream processing of proteins using an analogy with single-column batch chromatography with recycle lag
O MS-02	Gabriel Teixeira	Estimating the melting temperatures of Type V deep eutectic solvents
O MS-03	Harriet Louise Judah	Chemical recycling of poly(ethylene terephthalate) using low-cost ionic liquids
O MS-04	Marco S. Reis	Industrial process analytics: from case-based problem solving to a systematic discipline in Chemical Engineering
O MS-05	Joana Manuel Almeida	An integrated approach of numerical topological optimization and 3D printed experimental validation
O MS-06	Luís M. C. Oliveira	A framework for predicting odor threshold values of perfumes by scientific machine learning and transfer learning
O MS-07	Ana Teresa Cerdeira	Microdroplets flowing through microfluidic constrictions: experimental and numerical study
O MS-08	Santiago Abelleira	Understanding the behavior of an integrated process for microbial oil production from organic waste through modelling and simulation
O MS-09	Mateus P. Caixeta	A novel CFD approach to calculate the ozone mass transfer coefficient (kL) in a tube-in-tube membrane reactor: coupling numerical and analytical modeling
O MS-10	Mariana Castelo Pereira	Kinetic modeling of chemical reactions towards a faster chemical development in the pharmaceutical industry
O MS-11	Nicolás Martínez-Ramón	Analysis of the role of gasification within a waste management and valorization system using an artificial neural network as surrogate model
O MS-12	Chia Wei Lim	ReactorDesign App: An interactive software for self-directed explorative learning

O RS-01	Adriano Henrique	Separation of n/iso-paraffins in a hierarchically structured 3D-printed porous carbon monolith
O RS-02	Patrícia Reis	Fenton and ion exchange processes for winery wastewaters treatment
O RS-03	Ricardo Ferreira	TiO2-silver zeolites composites for ethylene removal and reduction of fruits and vegetable wastes

O RS-04	Rafael O. M. Dias	Methane upgrading on pelletized maxsorb by gas-phase simulated moving bed
O RS-05	João C. F. Nunes	Silica-based supported ionic liquid-like phase materials for the flow-through downstream processing of L-asparaginase
O RS-06	Júlia Cristiê Kessler	Improving α -tocopherol extraction from <i>Moringa oleifera</i> L. leaves using SFE-CO ₂
O RS-07	Bruno Castro	Xylene isomerization in the liquid phase by MOR type zeolites
O RS-08	Anareth Cavuquila	A detailed study on the valorization of multilayer plastic waste based on the dissolution and precipitation technique
O RS-09	Rami Arafah	Complete separation of nadolol stereoisomers by fixed-bed and simulated moving bed chromatography
O RS-10	Jonathan Simonace	Influence of [emim][Tf ₂ N] in PES/SAPO-34 mixed matrix membranes for gas separation
O RS-11	Eva Portillo Sanchez	Valorisation of sewage sludge producing an activated carbon as an adsorbent for the removal of cytostatic drugs from water
O RS-12	Abeer Al Mohtar	Pillared clays as cost-effective adsorbent for CO ₂ capture in the cement industry: Experimental and simulation study
O RS-13	Miguel Nogueira	Waste-derived carbon materials for adsorptive recovery of rare earth elements
O RS-14	Rubén Calero-Berrocal	Biomethane production by PSA with sewage sludge-based adsorbents
O RS-15	Jorge F. B. Pereira	Evaluation of the cholinium chloride-based aqueous biphasic systems (ABS) hydrodynamics
O RS-16	Joana Martins	CO ₂ capture and valorization to synthetic natural gas – process integration
O RS-17	Lucas Zafanelli	Green hydrogen recovery from natural gas grids by adsorption process
O RS-18	Nicolas Schaeffer	Solvent extraction in non-ideal eutectic solvents – application towards lanthanide separation
O RS-19	Pedro Cerqueira	Autothermal reforming of distillery wastewater for renewable hydrogen production
O RS-20	Diego Rodríguez-Llorente	A novel continuous flow multiphase installation for terpene-based extraction of acetic acid from wastewater streams
O RS-21	Isabella Corrêa	Enhanced simulated moving bed reactor performance for the synthesis of solketal by implementing the ModiCon strategy